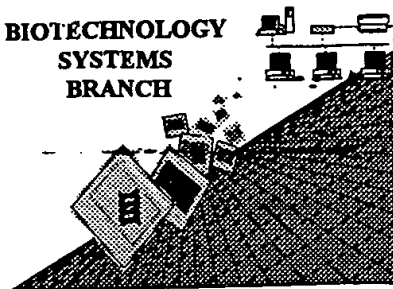


RAW SEQUENCE LISTING
ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



0500

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/640,211

Source: OIPE

Date Processed by STIC: 8/29/2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October-1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/640,211

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ Variable Length Sequence(s) ____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 ☐ Skipped Sequences (OLD RULES) Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ Skipped Sequences (NEW RULES) Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 ☒ Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☐ Use of <213>Organism (NEW RULES) Sequence(s) ____ are missing this mandatory field or its response.
- 12 ☐ Use of <220>Feature (NEW RULES) Sequence(s) ____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 ☐ PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/640,211 DATE: 08/29/2000
 TIME: 17:05:21

Input Set : C:\CRF3\PAOLA\PPP.txt
 Output Set: N:\CRF3\08292000\I640211.raw

Does Not Comply
 Corrected Diskette Needed

4 <110> APPLICANT: Wood, Marion
 5 Shenk, Michael A.
 6 McGrath, Annette
 7 Glenn, Matthew
 9 <120> TITLE OF INVENTION: Compositions and methods for the
 10 modification of plant gene transcription.
 13 <130> FILE REFERENCE: 11000.1021CIU
 15 <140> CURRENT APPLICATION NUMBER: US/09/640,211
 15 <141> CURRENT FILING DATE: 2000-08-16
 15 <160> NUMBER OF SEQ ID NOS: 2368
 17 <170> SOFTWARE: FastSEQ for Windows Version 3.0

2119
 ERRORED SEQUENCES

E--> 37724 <210> SEQ ID NO: 12119

37725 <211> LENGTH: 195

37726 <212> TYPE: PRT

37727 <213> ORGANISM: Eucalyptus grandis

E OK 37729 <400> SEQUENCE: 2119

37730 Ser Gly Ser Gln Val Ser Ile Ile Met Ile Ser Ser Thr Gly Lys Leu
 37731 1 5 10 15
 37732 His Glu Tyr Ile Ser Pro Ser Thr Ser Thr Lys Lys Met Tyr Asp Gln
 37733 20 25 30
 37734 Tyr Gln Gln Ala Leu Glu Val Asp Leu Trp Ser Ser His Tyr Glu Lys
 37735 35 40 45
 37736 Met Gln Glu Asn Leu Arg Lys Leu Lys Glu Val Asn Lys Lys Leu Gln
 37737 50 55 60
 37738 Leu Glu Val Arg Arg Arg Phe Gly Glu Gly Leu Asn Gly Met Ser Leu
 37739 65 70 75 80
 37740 Ser Glu Leu Cys Gly Leu Glu Gln Asp Met Asp Asn Ala Val Ser Leu
 37741 85 90 95
 37742 Ile Arg Glu Arg Lys Tyr Lys Thr Leu Gly Asn Gln Ile Asp Thr Ala
 37743 100 105 110
 37744 Arg Lys Lys Lys Lys Asn Ala Glu Glu Ile Asn Lys Ser Leu Leu Gln
 37745 115 120 125
 37746 Asp Trp Thr Asn Leu Ile Lys His Leu Arg Glu Asp Asp Pro His Phe
 37747 130 135 140
 37748 Gly Met Val Asp Asn Gly Arg Asp Tyr Glu Ala Val Ile Gly Tyr Thr
 37749 145 150 155 160
 37750 Asp Ala Ala Ala Ala Arg Leu Tyr Thr Leu Arg Leu Gln Pro Asp
 37751 165 170 175
 37752 Gln Pro Asn Leu Thr Ser Gly Gly Gly Ser Glu Ile Thr Thr Tyr Pro
 37753 180 185 190
 37754 Leu Leu Glu
 37755 195
 42150 <210> SEQ ID NO: 2317

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/640,211

DATE: 08/29/2000
TIME: 17:05:28

Input Set : C:\CRF3\PAOLA\PPP.txt
Output Set: N:\CRF3\08292000\I640211.raw

42151 <211> LENGTH: 18
42152 <212> TYPE: PRT
42153 <213> ORGANISM: Pinus radiata
E--> 42155 <400> SEQUENCE: 2137 → 2317
42156 Lys Arg Gly Val Pro Trp Thr Glu Glu Glu His Arg Met Phe Leu Val
42157 1 5 10 15
42158 Gly Leu
42895 <210> SEQ ID NO: 2368
42896 <211> LENGTH: 67
42897 <212> TYPE: PRT
42898 <213> ORGANISM: Pinus radiata
42900 <400> SEQUENCE: 2368
42901 Pro Asp Leu Lys Arg Gly Asn Phe Ser Glu Glu Glu Asp Glu Leu Val
42902 1 5 10 15
42903 Ile Lys Leu His Ser Leu Leu Gly Asn Lys Trp Ser Leu Ile Ala Gly
42904 20 25 30
42905 Arg Leu Pro Gly Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Thr
42906 35 40 45
42907 His Ile Lys Arg Lys Leu Leu Asn Arg Gly Leu Asp Pro Gln Ser His
42908 50 55 60
42909 Arg Pro Leu
42910 65
E--> 42912 753 delete at end of file

see next page for more errors

<210> 1183
 <211> 462
 <212> DNA
 <213> Eucalyptus grandis

<400> 1183
 acaaacaac aaacaagacg gaacgagatg aagacgggtc agtcgaagaa gttcaggggc 60
 gtcagacagc gtcactgggg ctcttgggtt tccgaaattc gccatcctct gttgaagaga 120
 aggggtgtggc tgggcacggt cgagacgggt gaggaggcgg cagagccta cgaccaggcc 180
 gccatcttga tgagtggcgg caatgcaaag accaacttcc cgacatctca aaccacgaac 240
 ggcgaccccg ccgctgccaa ttcttgtct tcctcgaagc acttgtcgga gatcctccac 300
 gcgaantcaa ganatgcagc aagacgccgt cgccatccct cacctgccta aggctcgaca 360
 ctgagaactc ccacatcgga gtctggcaga agggtgccgg ccagcgtcag actcaactgg 420
 gtatgaccgt acagtcggaa caaaaatccg atccattggg ag 462

All item 10 on Error summary sheet

1/15/1

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 08/29/2000

PATENT APPLICATION: US/09/640,211

TIME: 17:05:29

Input Set : C:\CRF3\PAOLA\PPP.txt

Output Set : N:\CRF3\08292000\I640211.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:24227 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1183
L:24227 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1183
L:24227 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1183
L:24227 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1183
L:24227 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1183
L:24261 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1186
L:24261 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1186
L:24261 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1186
L:24261 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1186
L:24261 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1186
L:24263 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1186
L:24263 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1186
L:24263 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1186
L:24263 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1186
M:340 Repeated in SeqNo=1186
L:24307 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1189
L:24307 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1189
L:24307 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1189
L:24307 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1189
L:24307 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1189
L:24400 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1196
L:24400 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1196
L:24400 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1196
L:24400 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1196
L:24400 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1196
L:24402 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1196
L:24402 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1196
L:24402 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1196
L:24402 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1196
M:340 Repeated in SeqNo=1196
L:24407 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1196
L:24407 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1196
L:24407 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1196
L:24407 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1196
L:24445 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1199
L:24445 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1199
L:24445 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1199
L:24445 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1199
L:24445 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1199
L:24460 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1200
L:24460 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1200
L:24460 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1200
L:24460 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1200
L:24460 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1200
L:24465 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1200
L:24465 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1200

VERIFICATION SUMMARY

DATE: 08/29/2000

PATENT APPLICATION: US/09/640,211

TIME: 17:05:29

Input Set : C:\CRF3\PAOLA\PPP.txt

Output Set : N:\CRF3\08292000\I640211.raw

L:24465 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1200
L:24465 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1200
M:340 Repeated in SeqNo=1200
L:24545 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1206
L:24545 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1206
L:24545 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1206
L:24545 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1206
L:24545 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1206
L:24759 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1222
L:24759 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1222
L:24759 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1222
L:24759 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1222
L:24759 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1222
L:24760 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1222
L:24760 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1222
M:340 Repeated in SeqNo=1222
L:24786 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1224
L:24801 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1225
L:24827 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1227
L:24866 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1230
M:340 Repeated in SeqNo=1230
L:24906 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1233
L:24967 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1237
L:25013 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1240
L:25490 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1273
L:25562 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1278
L:25617 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1282
L:25751 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1292
L:25821 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1297
L:25833 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1298
L:26065 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1314
L:26304 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1332
L:26339 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1335
L:26556 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1351
L:26571 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1352
L:26681 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1360
M:340 Repeated in SeqNo=1360
L:26724 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1363
L:26813 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1370
L:26863 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1374
L:27012 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1385
L:27035 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1387
L:27077 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1390
L:27100 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1392
L:27161 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1396
L:27218 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1400
L:27375 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1411
M:340 Repeated in SeqNo=1411
L:27524 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1421

VERIFICATION SUMMARY

DATE: 08/29/2000

PATENT APPLICATION: US/09/640,211

TIME: 17:05:29

Input Set : C:\CRF3\PAOLA\PPP.txt

Output Set: N:\CRF3\08292000\I640211.raw

L:27564 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1424
 L:27672 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1432
 L:27725 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1436
 L:27791 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1441
 L:27806 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1442
 L:37724 M:216 E: (34) Seq.#s missing, SEQ ID NOS: 2119 thru 12118
 L:37729 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:12119 differs:2119
 L:42155 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:2317 differs:2137
 L:42912 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2368